GENESIS32 – Language Switching

APPLICATIONS NOTE

October 2013

Description: Guide to set up Language Aliasing for your GraphWorX32 displays
OS Requirement: Win 2000, XP Pro, Server 2003, Vista, Server 2008, Windows 7
General Requirement: Knowledge of GENESIS32 and GraphWorX32

Introduction

With a growing international market, displaying process information in multiple languages become extremely important, especially when there are operators do not master English. A simple solution to this is the ICONICS Language Server. With this server, you only need to configure language aliases and it will allow the user to switch between languages during runtime.

Let us take a look at the example by going to Start → Programs → ICONICS GENESIS32 → Languages → Language Demo (You can also find this file in \Program Files\Common Files\ICONICS\WebHMI\Samples).

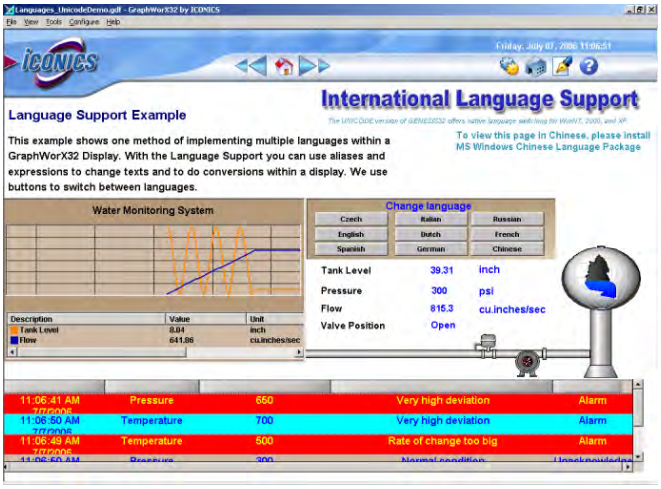

Figure 1 - Language Alias Example

NOTE: You can also load the Languages UnicodeDemo display from Gen32Demo.

Feel free to explore the display by pressing the different buttons to change the language on the display. Noticed how the entire display changes to a particular language you have selected once you press a button. You can see how we have configured this display by going into configuration mode.

By using Language aliasing, you can setup your display to show text in different language as well as to use the expressions function to easily change values in the metric unit to imperial units (i.e. inches and centimeters).

Few things must be configured in order to make it possible for you to switch language locally. This document will walk you through the steps necessary to setup a display to switch languages locally as text values.

Configuring Language Aliases

1. Open your Language Configurator by going to Start → Programs → ICONICS GENESIS32 → Languages → Language Configurator
2. Click on the "New" button and follow the on screen instructions to create a new configuration database.
3. In the new configuration, right-click on Languages and select New → Language in the tree-control on the left hand side.
4. Type in "English" for the Language Name.
5. The Language in Regional Specification is English – United States by default. If you would like to use another English setting, click on the browse button.
6. Repeat steps 3-6 to add other languages. Be sure the click on the browse button to change the Language in the Regional Specification.
7. We will now add an alias that would resolve to a text string that says "hello". Right-click on Aliases and select New → Alias in the tree-control on the left hand side.
8. Give the alias a name, we will use "Greeting" as the alias name here.
9. In the tree-control, expand the Alias that you have just created. All of the languages that you have added should be listed in the alias.
10. Select English and type in "Hello" in the text field.

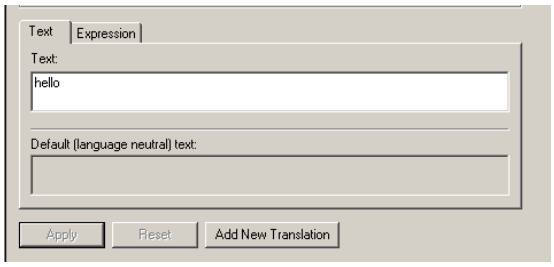

Figure 2 - Alias Value for English

11. Click through all of the languages in your alias and set the appropriate text for that language.
12. Go to File → Make Active to make sure the configuration is active. If "Make Active" is grayed out, then the configuration is already active.
13. Click on the "Refresh" button to refresh the server

Creating GraphWorX32 Displays

1. Open GraphWorX32 by going to Start → Programs → ICONICS GENESIS32 → GraphWorX32 → GraphWorX32
2. Add a text label to the display by click on the "Text" button in the Draw Toolbar.
3. Type in "/+Greeting+/" as the text of the label, without the quotes.
4. Add a button by clicking on the "Button" button in the Dynamics Toolbar.
5. Select "Select Language" as the Action and click on the "Browse…" button.
6. Select "English" in the Select Language portion. We do not have to worry about setting the subset because we did not create any.
7. Click "OK" to get back into the button properties inspector and click "OK" to save the changes.
8. Repeat steps 4-7 for any other languages that you may have added in your Language Configuration.
9. Go into run time and make sure that the Alias resolves locally on your computer.

Miscellaneous

Language Aliasing works almost any where within the GENESIS32 suite. You can use local alias in any text fields in your AlarmWorX32 and TrendWorX32 configurations. As you can see in Figure 3, you can use local alias as the name of the alarm and as it's message. This way, when the alarm comes into the alarm viewer in GraphWorX32, it can be displayed in different languages.

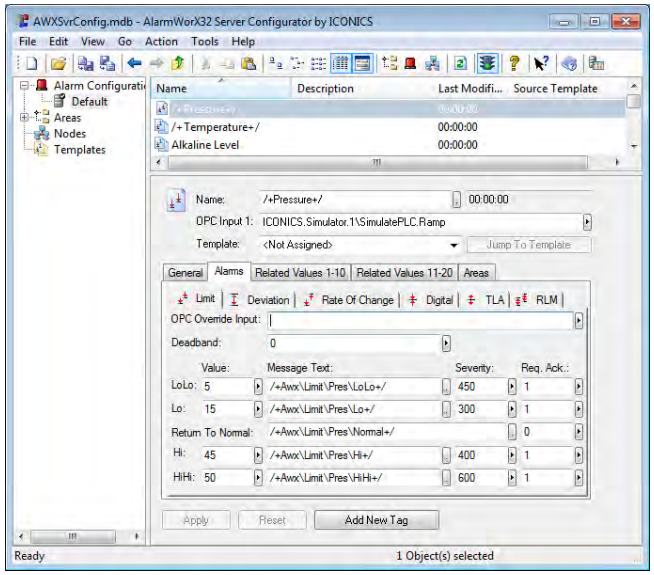

Figure 3 - Language Alias in AlarmWorX32 Configuration

You can also use Language Aliases within an ActiveX. The titles of an alarm viewer and trend viewer can be changed to a Language Alias. To change the alarm viewer column titles, you would change the column as show in Figure 4. You can also change the tool-tip so that it uses Language Aliases as well.

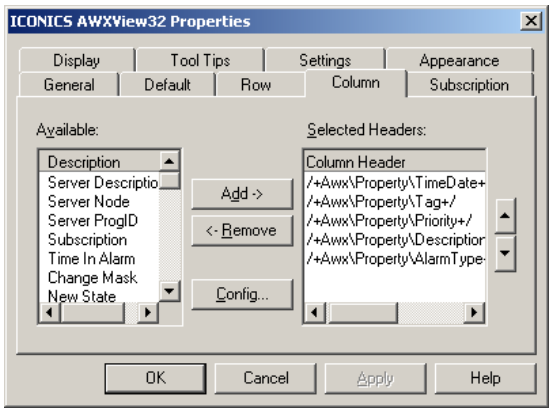

Figure 4 – Alarm Viewer Properties

To use Language Aliases within TrendWorX32 viewer, you can change the description columns in the Appearances Tab and click on the "Column…" button. You can then change the column text as show in Figure 5.

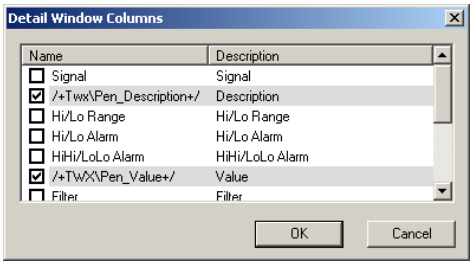

Figure 5 - TrendWorX32 Detail Columns

To change the pen's description, you need to edit each pen and change the description to use Language Aliases as shown in Figure 6

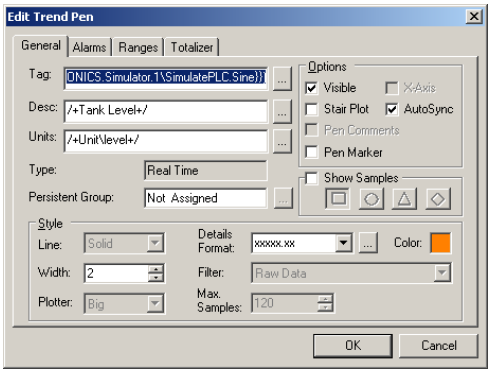

Figure 6 - Language Alias with Individual Pens